ENGINEERING CHANGE NOTICE

DART AEROSPACE LTD	Amendment Design F	ECN#: 841		
Date: 06.08.15	ADR Date: 06.03.28			
Job No: 00056	Created By:	Checked By:	111	
Product No: D206-667, D412-664, D350-748	Approved By:	Approved By:		
Product Name: Crosstube Installations	(Proj. Manager)	(Management if reqd)	NAIN	
Documents Affected:	(i roj. iwanager)	(- 2011 	

Release dwg M-MS21920-XX Rev.A

	Engineering Actions	Yes	No	Responsible	To happen by:	Complete
	Required Documents/Drawings Under Review?		Х			
	Update Blue/Pink Folder/Electronic File		Х			
3	Update DSI Folder/Electronic File		Х			
4	Update D-Part Master Binder	Х		KJ	06.08.24	06.08.244
5	Update Grey Project Binder	Х		CP	06.08.24	66. 68. 29 6
6	Update DEO/DSI Binder		Х			
7	Update Master Document List (MDL)		Х			
8	Update Document Record (DR)		X			
9	Update Change Record Form		X			
10	Move Electronic File	Х		KJ	06.08.241	06.08,2494
11	Notify TC of Change		Х		·	0
12	Notify FAA of Change		Х			
13	Update QSI 021 (TC/FAA STC)		X			
14	Update QSI 036 (K-Kits)		X			
15	Update Accpac Database		Х			
16	Update Access Database		X			
17	Verification ARC		Х			
18	Update STC Approval List		Х			
19	Update Product Development Summary		Х			
20	Create/Update COSS (Estimate/BOM)		Х			
21	Create/Update PPP's		X			
22	Update Paperwork Kits in Production		Х			
23	Update Paperwork Kits in Stock		X			
24	Red Tag Stock with old CHG #		Х			
25	Rework/Scrap Current Production		Х			
26	Rework/Scrap Kits in Stock?		Х			
27	Update Qpulse/Laminated Dwgs		Х		, , , , , , , , , , , , , , , , , , , ,	<u> </u>
28	Create/Update Controlled PDF Files	Х		KJ	06.08.24	06.08.24
	Create/Update FAI sheets		Х			/
	Create/Update CNC Programs		Х			
	Create/Update Tooling		Х			
	MPP required?		Х			
	Notify Previous Customers		Х			
34	Notify Eurocopter France		Х			
35						
36						<u> </u>

Description / Action:

- -Dwg M-MS21920-XX Rev.A is a spec control dwg requiring the MS21920-XX clamps we purchase to be ALL STAINLESS.
- this issue has already been addressed, the p/o for clamps now quote the required spec and say "ALL SS"

-old "cad plated" stock has already been segregated

-there is no need to stock parts as "M-MS21920", the dwg simply requires the p/o to state all stainless steel per the latest spec -this spec will be added to crosstube dwgs as they are updated.

-make sure receivers know to check for all SS-clamps. Suppliers sometimes send old-style CAD plated clamps regardless. CAD plated clamps will have a gold-colored threaded shaft and nut.

ECN Complete:



DESIG	CP,	DRAWN BY	DART AEROSPACE LT HAWKESBURY, ONTARIO, CANADA	D
CHEC	KED J.	APPROVED	DRAWING NO. M-MS21920-XX	REV. A
DATE	10 × 0 ·	17	TITLE	SCALE
06.0	3.16		CLAMP, HOSE, FLAT BAND	NTS
Α		06.03.16	NEW ISSUE	

PURCHASE MATERIAL: CLAMP, HOSE, FLAT BAND, 500 deg F

DIMENSIONS PER DETAIL SPECIFICATION: MIL-DTL-8783/1 DATED 6 JULY 1998

MATERIAL & REQUIREMENTS PER DETAIL SPECIFICATION:

MIL-DTL-8783C

NOTE: ALL PARTS OF THE CLAMP MUST BE CORROSION-RESISTANT

STEEL. THEREFORE CLAMPS PER SPECIFICATION MS21920C

OR EARLIER REVISION ARE *NOT* ACCEPTABLE.

PART NUMBER: M-MS21920-XX

WHERE "MS21920-XX" = PURCHASED PART NUMBER

WITH "XX" = SPECIFIC DASH NUMBER PER MIL-DTL-8783/1

EXAMPLE: PURCHASED PART "MS21920-20" = DART SPECIFICATION "M-MS21920-20"

AMENDMENT DESIGN REVIEW BERGE ONLY

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Part/Installation No.: DZ06657 & D412-UH Rev	
Oject 'P' Number: " 6.5 i	Design Review No.: N/A Date: 06.63.78
	Project Description/Title:
Eng. Project Manager: Chris France	

Persons Present		
SERGE SHAMBAZIAN	Title	lniți a l
CHRIS PRIVENAL	Design Manager	
TRAVENTAL	Engineering Project Manager	1
	Marketing Manager	- P
	Manufacturing Manager	
DAVID SHEPHERD	Quality Manager	
BILL BECKETT	CHIEF ENSINEER	
DIE DEKET	GENERAL MANAGER	
L.,	(Handel	

Comments

- Some MSZ19720 clamps we purchase are all stainless while some have a mix of stainters / regular steel.
- All Stainless 15 Prefored
- Spec MSZ1970 Revic allows mix of stock, MIL-DTL-8783C requires all 55 Need to ensure all future clamps are SS; create M-MSZ1920-xx dwg.

		•	O
Key Tasks (check or N/A)	Check	Responsible	Constitution
Review Outstanding TSR/NCR/CAR/PAR		- indeposable	Completion Date
Fill out Criteria/Constraints Form - Inputs	NA		
I ill out Project Evaluation Form	MA		
D-Part creation/revision	NA.		
Get Manufacturing Innut	1	1 a	··
First Article Inspection	1	18	11 11 12
Fit and Function Test	NA		1 06.03.18
Structural Test	NA		·
Reports (Compliance, Loads, Stress, Confermity)	NAT		
Check Diawings against all Osis	NA		
Review Criteria/Constraints Form	V .	W	06.03.28
Revision to existing approval	NA		00.07,25
Close Amendment Project	AVA		
- Tojoct	1	10	
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Conclusion:

Crocked Lug M-MSZ1920-XX Rev.A and ensure production 15 purchasing all MSZ1920 clamps to MIL-DTL-8783C